

Fujitsu recommends Windows® 7.

# Data Sheet

## Fujitsu ESPRIMO P900 E90+

### Desktop PC

The Expandable Business Workhorse

Fujitsu ESPRIMO P900 PCs give you the absolute highest PC manageability, performance and expandability. The optional Zero Noise PCs help you focus on your work and with 94% efficient power supply with 0-Watt technology, you'll also save on energy costs. The use of identical components ensures perfect infrastructure compatibility. At retirement, Fujitsu's distinctive EraseDisk function wipes your data securely.

#### Microtower

Maximum performance and optimal expandability

- High-quality, high-value microtower, 7 drive bays, 4 PCI/PCI express interfaces

#### Green technology

Fujitsu's contribution to environmental protection for the continued existence of our planet

- Halogen-free printed circuit of mainboard and power supply, sophisticated product concept for the entire lifecycle

#### Energy efficiency coupled with intelligent performance

Low power consumption combined with top performance

- 2nd generation Intel® Core™ processors with Turbo Boost 2.0 and Hyper-Threading technology, a switched monitor outlet and a power supply with up to 92% efficiency

#### System management

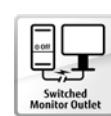
Simple system administration for complex IT infrastructures

- Intel® vPro™ technology (depending on processor) and Fujitsu DeskView manageability tools

#### Quiet

Pleasant working environment due to an extremely quiet system

- Innovative hardware design, optimized cooling concept ensures silent operations



# Components

<b>Processor</b>	Intel® vPro™ Logo with Intel® Core i5-2400, Intel® Core™ i5-2500 and Intel® Core™ i7-2600 processors. Intel® Core™ i7-2600 processor (4 Cores / 8 Threads, 3.40 GHz, 8 MB, Intel® HD Graphics 2000) Intel® Core™ i5-2500 processor (4 Cores / 4 Threads, 3.30 GHz, 6 MB, Intel® HD Graphics 2000) Intel® Core™ i5-2400 processor (4 Cores / 4 Threads, 3.10 GHz, 6 MB, Intel® HD Graphics 2000) Intel® Core™ i3-2120 processor (2 Cores / 4 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 2000) Intel® Core™ i3-2100 processor (2 Cores / 4 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics 2000) Intel® Pentium® processor G850 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics) Intel® Pentium® processor G840 (2 Cores / 2 Threads, 2.80 GHz, 3 MB, Intel® HD Graphics) Intel® Pentium® processor G630 (2 Cores / 2 Threads, 2.70 GHz, 3 MB, Intel® HD Graphics) Intel® Pentium® processor G620 (2 Cores / 2 Threads, 2.60 GHz, 3 MB, Intel® HD Graphics) Intel® Celeron® processor G530 (2 Cores / 2 Threads, 2.40 GHz, 2 MB, Intel® HD Graphics)
<b>Operating systems</b>	
<b>Operating system</b>	Genuine Windows® 7 Home Basic (EM) 32-bit Genuine Windows® 7 Home Premium 64-bit Genuine Windows® 7 Professional 32-bit Genuine Windows® 7 Professional 64-bit
<b>Operating system compatible</b>	openSUSE Linux Genuine Windows Vista® Genuine Windows® XP Citrix XenClient™ 2
<b>Operating system notes</b>	Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via <a href="http://support.ts.fujitsu.com">http://support.ts.fujitsu.com</a>
<b>Memory modules</b>	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM 4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
<b>Hard disk drives (internal)</b>	SSD SATA III, 256 GB, 2.5-inch SSD SATA III, 128 GB, 2.5-inch SSD SATA, 128 GB, 2.5-inch HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch HDD SATA III, 7200 rpm, 500 GB, 3.5-inch, business critical HDD SATA III, 7200 rpm, 500 GB, 3.5-inch HDD SATA III, 7200 rpm, 320 GB, 3.5-inch HDD SATA III, 7200 rpm, 250 GB, 3.5-inch HDD SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T. HDD SATA II, 7200 rpm, 320 GB, 2.5-inch HDD SATA II, 7200 rpm, 160 GB, 2.5-inch HDD SATA, 250 GB, 2.5-inch
<b>Hard disk notes</b>	Up to 18 GB of HDD space is reserved for system recovery
<b>Graphics add on cards (optional)</b>	NVIDIA® Quadro® NVS 300, 512 MB NVIDIA® GeForce® GT 420 NVIDIA® GeForce® 405 display port full height LFH59/ 2x DVI-I adapter cable LFH59/ 2x DP adapter cable DP to DVI-D (single link) Adapter Cable ATI Radeon® HD 5450, 512 MB 2nd NVIDIA® Quadro® NVS 300, 512 MB

<b>Drives (optional)</b>	BD Triple Writer SATA slim (tray) Blu-ray Disc™ Triple Writer DVD-ROM DVD Super Multi MultiCard Reader 20in1, USB 2.0, 3.5-Inch MultiCard Reader 20in1 USB 3.0 front con., 3.5-Inch
<b>Interface add on cards/components (optional)</b>	WLAN III, 802.11g/Draft-n (Windows only) USB 3.0 PCIe x1 Parallel Interface Gigabit Ethernet PCIe x1, DS eSATA Interface Dual serial card PCIe x1, powered Dual serial card PCIe x1
<b>Base unit</b>	ESPRIMO P900 E90+
<b>Mainboard</b>	
<b>Mainboard type</b>	D3062
<b>Formfactor</b>	μATX
<b>Chipset</b>	Intel® Q67
<b>Processor socket</b>	LGA 1155
<b>Processor quantity maximum</b>	1
<b>Memory slots</b>	4 DIMM (DDR3)
<b>Supported capacity RAM (max.)</b>	32 GB
<b>Memory frequency</b>	1333 MHz
<b>Memory notes</b>	Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same. > 16 GB support with future memory modules
<b>LAN</b>	10/100/1000 MBit/s Intel® 82579 LM
<b>BIOS version</b>	AMI Aptio 4.6
<b>BIOS features</b>	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI) FastOn
<b>Audio codec</b>	Cx20642
<b>Audio features</b>	Internal speaker supports audio playback, High Definition audio, 5.1 surround sound
<b>I/O controller on board</b>	
<b>Serial ATA total</b>	6
<b>thereof SATA III</b>	2
<b>thereof eSATA</b>	2 (optional)
<b>Controller functions</b>	Serial ATA II (3 Gbit) Serial ATA III (6 Gbit) NCQ AHCI Raid 1/0
<b>Interfaces</b>	
<b>Audio: line-in</b>	1
<b>Audio: line-in / microphone</b>	1
<b>Audio: line-out</b>	1
<b>Front audio: microphone</b>	1
<b>Front audio: headphone</b>	1

**Interfaces**

<b>USB 2.0 total</b>	14
<b>USB 3.0 total</b>	optional
<b>USB front</b>	4
<b>USB rear</b>	8
<b>USB internal</b>	2
<b>VGA</b>	1 (via DVI to VGA adapter, part of shipment)
<b>DisplayPort</b>	1
<b>DVI</b>	1 (DVI-I)
<b>Serial (RS-232)</b>	1 (9pin, 16 byte FIFO, 16550 compatible)
<b>Mouse / Keyboard (PS/2)</b>	2
<b>Ethernet (RJ-45)</b>	1
<b>Parallel</b>	1 (optional) (25pin with EPP and ECP)
<b>eSATA</b>	1 (optional)
<b>Interface Module notes</b>	Anytime USB charge functionality

**Input device / components**

<b>Input devices (optional)</b>	Optical USB tilt wheel mouse Optical USB/PS2 tilt wheel mouse KBPC PX ECO Mouse M440 ECO
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**Drive bays**

<b>Drive bays total</b>	7
<b>2.5-inch internal bays</b>	1
<b>3.5-inch internal bays</b>	2
<b>3.5-inch external bays</b>	2
<b>5.25-inch external bays</b>	2

**Slots**

<b>PCI-Express 2.0 x16</b>	1 x (312 mm) Full height
<b>PCI-Express 2.0 x4 (mech. x16)</b>	1 x (312 mm) Full height
<b>PCI-Express x1</b>	1 x (312 mm) Full height
<b>PCI (32-bit / 33 MHz)</b>	1 x (170 mm) Full height

**Graphics on board**

<b>Graphics brand name</b>	Intel® HD Graphics or HD Graphics 2000 (depending on CPU)
<b>Shared video memory</b>	up to 1759 MB

<b>TFT resolution (VGA)</b>	1024 x 768 pixel 1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1600 x 1200 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
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<b>TFT resolution (DVI)</b>	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
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**Graphics on board**

<b>TFT resolution (DisplayPort)</b>	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel 2560 x 1440 pixel 2560 x 1600 pixel
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<b>Graphics features</b>	Dual display support DirectX 10.1 HDCP support OpenGL® 2.1
	For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows 7® only)

<b>Graphics notes</b>	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz
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**Electrical values**

<b>Power efficiency note</b>	power supply efficiency (at 230V; 20% / 50% / 100% load) : 88% / 92% / 91%
<b>Rated voltage range</b>	100 V - 240 V
<b>Rated frequency range</b>	50 Hz - 60 Hz
<b>Operating voltage range</b>	90 V - 264 V
<b>Operating line frequency range</b>	47 Hz - 63 Hz
<b>Max. output of single power supply</b>	280 W
<b>Power factor correction/active power</b>	active
<b>Monitor outlet</b>	Switched

**Power consumption**

<b>Power consumption note</b>	See white paper Energy Consumption
<b>Link to Energy White Paper</b>	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=97001b4f-3df1-4981-8d8a-e863472c4769">http://docs.ts.fujitsu.com/dl.aspx?id=97001b4f-3df1-4981-8d8a-e863472c4769</a>

**Heat dissipation**

<b>Heat dissipation notes</b>	See white paper Energy Consumption
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**Noise for standard configuration (HDD, ODD, FDD)**

<b>Noise emission</b>	According to ISO9296
<b>Related Processors for noise</b>	Intel® Core™ i5 2400
<b>Noise Operation mode 1: ODD load (Blue angel requirement)</b>	4.0 B/ 26 dB(A)
<b>Noise Operation mode 2: HDD load (Blue angel requirement)</b>	3.5 B/ 20 dB(A)
<b>Noise Operation mode 3: CPU 90% load (Blue angel requirement)</b>	3.5 B/ 20 dB(A)
<b>Noise Operation mode 4: High load</b>	3.6 B/ 21 dB(A)
<b>Noise Operation mode 5: Office applications 2.0</b>	3.4 B/ 19 dB(A)
<b>Idle mode (Blue Angel requirement)</b>	3.4 B/ 19 dB(A)
<b>Noise notes / description</b>	A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	175 x 419 x 395 mm
<b>Operating position</b>	Vertical
<b>Weight</b>	approx. 11 kg
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Operating ambient temperature</b>	10 - 35°C

**Compliance**

<b>Product</b>	ESPRIMO P900
<b>Model</b>	MI5W-3062
<b>Germany</b>	TÜV GS
<b>Europe</b>	CE Nordic Swan
<b>USA/Canada</b>	FCC Class B cCSAus
<b>Global</b>	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® EPEAT® Gold (dedicated regions)
<b>Compliance link</b>	<a href="https://sp.ts.fujitsu.com/sites/certificates/">https://sp.ts.fujitsu.com/sites/certificates/</a>

**Additional Software**

<b>Additional software (preinstalled)</b>	Nero Essentials S (burning software) Fujitsu Recovery (Hard Disk Based Recovery) Norton Internet Security (incl. Firewall) 60 days version Microsoft® Office Starter: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®. Buy Office 2010 to use the full-featured software.
<b>Additional software (optional)</b>	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not supported under Windows XP if the system runs on Intel onboard graphics)

**Miscellaneous**

Keyboard on (Special Fujitsu keyboard required)
Thermal management
Extended lifetime

**Compatibility (references)**

DMI 2.0
PC 2001
WMI 1.5
USB 2.0
SMBIOS

**Manageability**

<b>Manageability technology</b>	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) Intrusion switch (optional) iAMT 7.0
<b>Manageability software</b>	DeskView 10.x client management including:
<b>DeskView components</b>	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)
<b>Manageability link</b>	<a href="http://ts.fujitsu.com/manageability">http://ts.fujitsu.com/manageability</a> <a href="http://www.altiris.com/fujitsu">http://www.altiris.com/fujitsu</a>

**Security**

<b>System protection</b>	Kensington Lock support Eye for padlock Optional: Integrated cabinet lock
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**Security**

<b>Audit proof protection</b>	EraseDisk (optional) Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 1.2) Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces
<b>Access protection</b>	User and supervisor BIOS password Hard disk password Optional: Access protection via external SmartCard reader Optional: Access protection via internal SmartCard reader

**Serviceability**

EasyFix
EasyChange for HDD
EasyChange for optical drives

**Packaging information**

<b>Packaging dimension</b>	516x278x562 mm
<b>Max. quantity / pallet</b>	24
<b>Material - Weight (g) Carton</b>	1405 g
<b>Material - Weight (g) EPS / PS</b>	160 g
<b>Material - Weight (g) PE</b>	appr. 60 g
<b>Packaging notes</b>	printed user documentation is bleached in chlorine free process

**Warranty**

<b>Standard Warranty</b>	3 years
<b>Service level</b>	Bring-In / On-Site Service (depending on country)
<b>Maintenance and Support Services - the perfect extension</b>	
<b>Recommended Service</b>	5x9, Response Time: Next Business Day
<b>Spare Parts availability</b>	5 years
<b>Service Weblink</b>	<a href="http://ts.fujitsu.com/Supportservice">http://ts.fujitsu.com/Supportservice</a>



# More information

## Fujitsu platform solutions

In addition to Fujitsu ESPRIMO P900 E90+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

### Computing Products

[www.fujitsu.com/global/services/computing/](http://www.fujitsu.com/global/services/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu ESPRIMO P900 E90+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://ts.fujitsu.com/ESPRIMO>

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



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